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of Transportation

**Federal Aviation
Administration**

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REVISED SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service
Washington, DC

<http://www.faa.gov/aircraft/safety/alerts/SAIB>

This is information only. Recommendations aren't mandatory.

Introduction

This **Revised** Special Airworthiness Information Bulletin clarifies information (see revision marks below) previously published in SAIB NE-06-31, February 27, 2006, and advises you, owners and operators of **Lycoming Engines (Lycoming) O-320-H, O-360-E, LO-360-E, TO-360-E, LTO-360-E series engines** of the following approval of an alternative method of compliance (AMOC) to the requirements of Airworthiness Directive (AD) 80-04-03 R2. All other information remains the same.

We have determined that the anti-wear additive contained in the engine lubricating oils listed in **Table 1 of this SAIB** are the same as Lycoming additive LW-16702 and therefore meet the requirements of Lycoming Service Bulletin 446B, 446C, and 446D. We have approved engine oil change to these oil brands as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1, with the limitations described below.

Background

These approved oils contain an additive that is identical to Lycoming's additive LW-16702, which AD 80-04-03 R2 requires to be added to certain O-360 engine models at each 50-hour oil service interval. We determined that the use of engine lubricating oils listed in Table 1 provide the necessary anti-wear protection at engine start-up and therefore satisfies the intent of the AD.

We've listed the **nine** approved additized oils in Table 1.

Table 1	
Additized Oil	Date of AMOC Approval
Aeroshell Oil W 15W-50	November 9, 1987
Aeroshell Oil W 100 Plus	May 4, 1999
Exxon Aviation Oil Elite 20W-50	January 24, 2000
Castrol Aviator AD 65	May 27, 2003
Castrol Aviator AD 80	May 27, 2003
Castrol Aviator AD 100	May 27, 2003
Castrol Aviator AD 120	May 27, 2003
AeroShell Oil W 80 Plus	February 6, 2006
Phillips 66 Type 100 AW	April 4, 2006

Recommendations

We approve engine oil change to any of the oils listed in Table 1 of this SAIB as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1, with the limitations described below.

Use of this AMOC is not mandatory, however, if you elect to use any of the oils listed in Table 1 of this SAIB, or any of the other approved additized oils when complying with AD 80-04-03 R2, the following limitations are applicable:

- If you elect to use approved additized oil at the 50-hour oil service interval, we require that you use the same brand and formula additized oil for any make-up oil additions performed during the service interval.
- If the same brand and formula approved additized oil is unavailable for make-up, a maximum of 2 quarts of a Lycoming-approved oil listed in Lycoming Service Instruction No. 1014M can be added between 50-hour oil service intervals.
- If you add more than 2 quarts of a Lycoming-approved oil listed in Lycoming Service Instruction No. 1014M during the 50-hour oil service interval, then we require that you add Textron Lycoming additive LW-16702.
- If you extend the oil service interval beyond 50 hours, we require that you add Textron Lycoming additive LW-16702 at 50 hours to maintain compliance with the AD.
- Use only additized oil from containers that have been marked with a statement identifying it as having been approved as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1.

For Further Information Contact

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